Rocosoft PTZJoy™ PRO Controller

User Manual

VISCA PTZ Camera Control Software for PC

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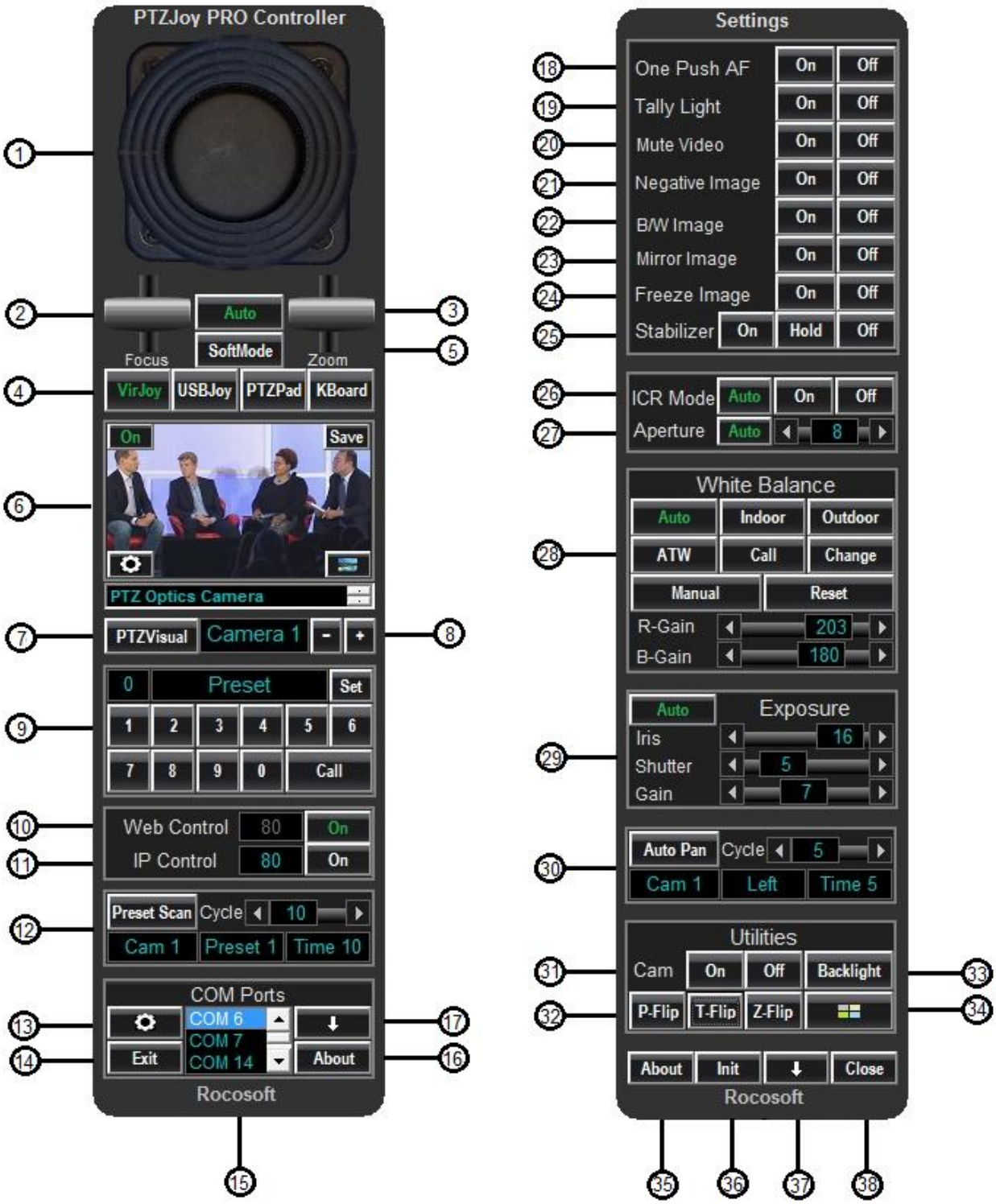

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1. Virtual Joystick Controller

2. **Focus Lever**
Focus Near/Far

3. Zoom Lever
Zoom IN/OUT

4. Control Type Selection
Chose between Virtual Joystick, USB Joystick, directional buttons, or keyboard shortcuts

5. Soft Mode
Precise controls when using a USB Joystick

6. Video Monitor
Shows live video from connected camera and captures images

7. PTZVisual Pad
Opens PTZVisual Pad in a new window

8. Camera Selection Buttons
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12. Preset Scan
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Provides IP information for the Web/IP Remotes

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18. One Push Auto Focus: ON/OFF

19. Tally Light: ON/OFF

20. Video Mute: ON/OFF

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22. B/W Image: ON/OFF

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24. Image Freeze: ON/OFF

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26. ICR Mode: Auto, ON/OFF

27. Aperture Settings

28. White Balance Settings
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29. Exposure Settings
Auto, Iris, Shutter, Gain

30. Auto Pan
Set camera to pan back and forth at a specified interval

31. Camera ON/OFF

32. P-Flip, T-Flip, Z-Flip
Inverses movement of cameras

33. Backlight ON/OFF

34. Start with Windows
Set up program to auto start with Windows

35. About
Provides IP information for the Web/IP Remotes

36. Initiate Button
Quickly connect cameras without the need to restart program

37. Minimize
Minimizes settings panel to task bar

38. Close
Closes Settings panel

About
Provides IP information for the Web/IP Remotes

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GETTING STARTED

Before starting PTZJoy PRO, connect your PTZ camera to your computer using a VISCA Control cable. Please make sure your PTZ camera is turned ON.

1) Connect the VISCA control cable to the ***Serial/USB COM port*** of your computer and to the ***VISCA In*** jack of your camera.
2) Check which COM port number is being used by your serial device in the Ports section of the ***Device Manager**** on your computer (example: COM2)**.

To access the **Device Manager, open the **System** folder from your **Control Panel**, and click on **Device Manager**. Expand the **Ports** section to view your active COM ports and double check that there are no yellow exclamation marks. If you see a yellow exclamation mark next to any of your COM ports, you will need to fix this issue. If there are no yellow exclamation marks, these ports are active and available to control cameras.*

*** If you are connecting only one camera, or multiple cameras in a daisy chain mode, you will need to know only one COM port number. If you have multiple cameras connected to multiple ports, you will need to know the COM port numbers being used in order to switch between cameras in the application.*

CONTROLLING YOUR PTZ CAMERA

Once the PTZ camera is connected to your computer, open PTZJoy PRO. All COM ports available to control PTZ cameras will be listed in COM port window. Select the COM port your camera is connected to from the list of available COM ports and choose the desired method of camera control from the Control Type Selection buttons: **VirJoy, PTZPad, USBJoy,** or **KBoard.** The default Control Type is **VirJoy**.

VIRTUAL JOYSTICK CONTROL

1) Using your computer mouse, click on any point on the virtual joystick and drag your computer mouse in the direction you want to move your selected camera*.
2) To activate the Zoom In and Zoom Out feature, click and drag the ***Zoom Lever*** with your computer mouse up to zoom in and down to zoom out*.
3) Adjust the focus of the camera but clicking and dragging the ***Focus Lever*** with your computer mouse up to focus near, and down to focus far*. Click on the ***Auto*** button to auto focus the camera.

**Regulate the speed of the pan, tilt, and zoom movements by the movement of the computer mouse relative to the center point of the virtual controls - called the zero point, at which the speed is zero. The speed of pan and tilt movements is determined by they location of the mouse relative to the center point of the virtual joystick; the speed of the zoom in and out movement is determined by the location of the mouse relative to the center point of the zoom lever. The further away from the zero point of the virtual joystick or zoom lever that you move the mouse, the quicker the camera will rotate. The closer the mouse is to the zero point of the virtual joystick or zoom lever, the slower the camera will rotate.*

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USBJOY JOYSTICK CONTROL

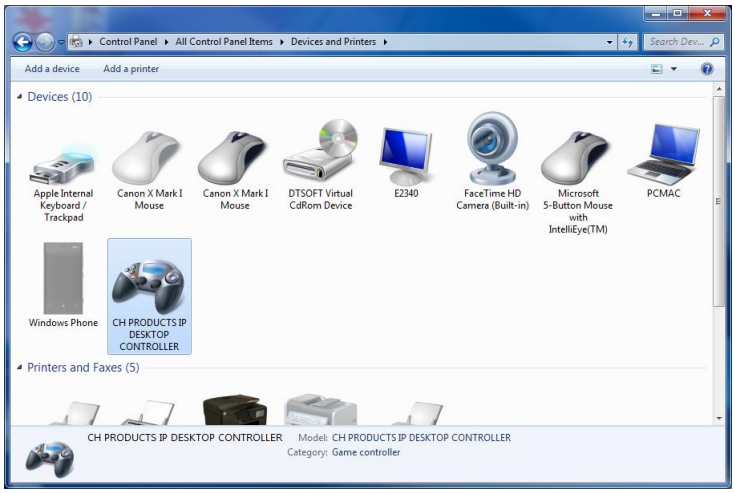
We recommend checking if your cameras work with our Virtual Joystick first before trying to connect a USB Joystick.

1) Connect your joystick controller to an available USB port on your computer and wait until your computer initializes it.
2) Follow instructions below to calibrate your joystick.

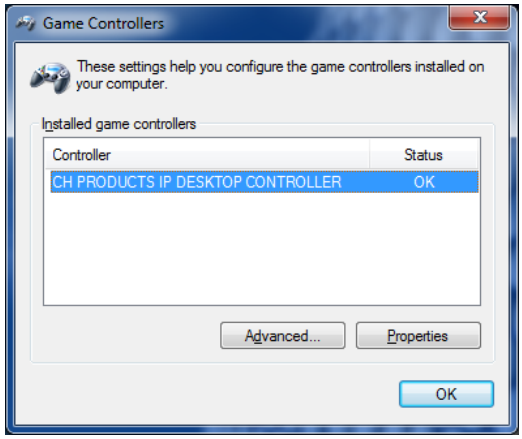
CALIBRATING YOUR JOYSTICK

Calibrating your joystick controller will help the joystick work more accurately with the PTZJoy application by finding the exact zero point and peripheral borders of the controller.

1) Open ***Control Panel*** → open ***Devices and Printers***
2) You should see a screen showing available devices:


Control Panel ▸ All Control Panel Items ▸ Devices and Printers ▸
Add a device
Add a printer
Devices (10)
Apple Internal Keyboard / Trackpad
Canon X Mark I Mouse
Canon X Mark I Mouse
DTSOFT Virtual CdRom Device
E2340
FaceTime HD Camera (Built-in)
Microsoft 5-Button Mouse with IntelliEye(TM)
PCMAC
Windows Phone
CH PRODUCTS IP DESKTOP CONTROLLER
Printers and Faxes (5)
CH PRODUCTS IP DESKTOP CONTROLLER
Model: CH PRODUCTS IP DESKTOP CONTROLLER
Category: Game controller

3) Find your Joystick Controller and right click on the icon. Select ***Game Controller Settings***. Highlight the controller you wish to calibrate and select ***Properties.***



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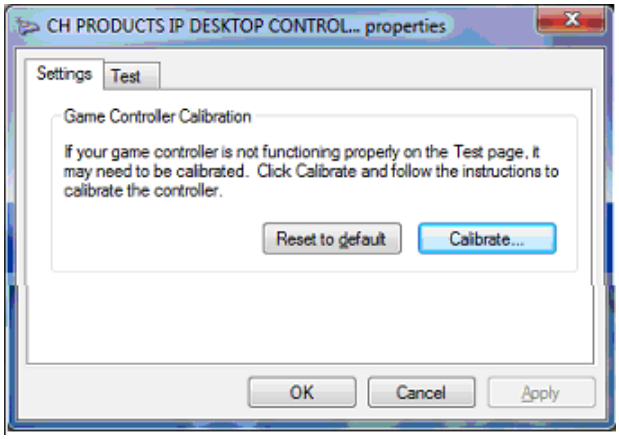
4) To start the calibration process, select Calibrate under the Settings tab to initiate the Device Calibration Wizard:


CH PRODUCTS IP DESKTOP CONTROL... properties
Settings
Test
Game Controller Calibration
If your game controller is not functioning properly on the Test page, it may need to be calibrated. Click Calibrate and follow the instructions to calibrate the controller.
Reset to default
Calibrate...
OK
Cancel
Apply

USING YOUR JOYSTICK

Once your joystick is connected and calibrated, you can begin using it to control your connected PTZ cameras.

1) Click on the USBJoy Button.
2) Move your USB joystick in the desired direction to control your camera. Regulate the speed of the pan and tilt movements by the movement of the joystick relative to its center point, or zero point. The further you move the joystick away from it's zero point, the quicker the camera will rotate.

USING THE BUTTON SHORTCUTS ON YOUR JOYSTICK

All USB joysticks are different, but most of them have special shortcut buttons that can be assigned specific commands. This is a list of the PTZJoy pre-assigned functions for buttons on a USB joystick:

Button #	Function
1	Zoom In
2	Zoom Out
3	Previous Camera
4	Next Camera
5	Previous Preset
6	Next Preset
7	Call Preset

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Here are some examples of different button locations for several common joysticks:

LOGITECH ATTACK3

PROFESSIONAL PTZ JOYSTICK

THRUSTMASTER T.1600M

THRUSTMASTER TOP GUN USB VERSION

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CYBORG V-1

LOGITECH WIRELESS GAMEPAD

Your joystick may have a different button layout. To check your joystick's button layout:

1) Open ***Control Panel*** → open ***Devices and Printers***
2) Find your Joystick Controller and right click on the icon. Select ***Game Controller Settings.*** Select your USB joystick from the list and click on ***Properties.***
3) Select the ***Test*** tab. Press the buttons on your joystick and take note of which numbers light up under the ***Buttons*** section in this window. Once you know which buttons on your joystick correspond to a specific number, refer to our command table to see a list of functions and their corresponding buttons.

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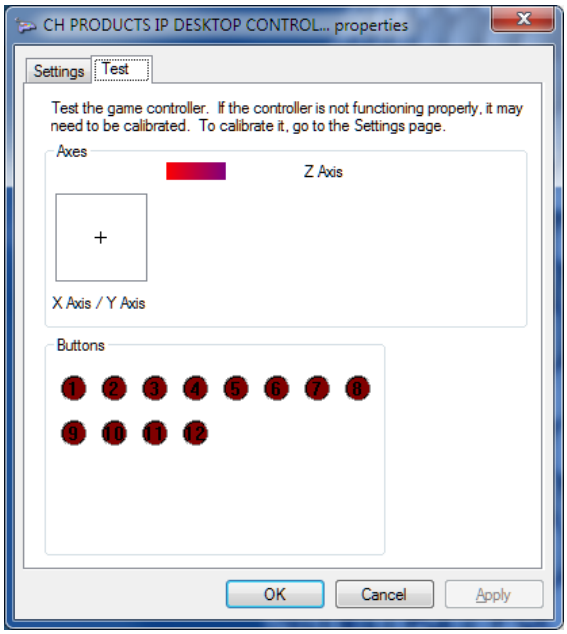

CONTROLLING ZOOM FUNCTION ON A GAMING PTZ JOYSTICK

If using a gaming joystick with a zoom lever, you can use this lever for controlling the zoom function with variable speeds. Since gaming joystick levers do not have a center, or zero, position like professional joystick levers do, they will not return to the zero position when you release the lever – it has to be done manually.

You must manually find a zero position on you gaming joystick and always start the program with the lever in that position. By doing this, you will have full zoom control with variable speed of your camera.

1) Start PTZJoy PRO with the joystick's lever in roughly the middle position.
2) Move the zoom lever up and down to zoom in and out to find the point where you can completely stop the zoom. This is your zero point.
3) Restart PTZJoy PRO with the lever in zero position. Your joystick is now configured to use the zoom lever with a zero point.
4) You can now regulate the speed of the zoom by the movement of the zoom lever relative to its zero point. The further you move the lever away from it's zero point, the quicker the camera will zoom in and out. To stop the zoom, you must move the zoom lever back to the zero point.

SOFT JOYSTICK MODE

This mode allows for slower, more precise movements of the camera while using the Virtual or USB joystick. Click on the ***Soft Mode*** button to switch to Soft Joystick Mode.

PTZPAD CONTROL

This mode allows you to control your PTZ camera using precise directional buttons.

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1) Activate this feature by clicking on the **PTZPad** button in the application.
2) Control your cameras by clicking on the directional buttons to move your camera in the corresponding direction.

KEYBOARD HOTKEYS

Control pan/tilt/zoom/focus functions, change speed settings, call on presets, and switch cameras using pre-assigned shortcuts or "hotkeys" on any standard keyboard. This is a diagram of the PTZJoy pre-assigned keyboard hotkeys:

CONNECTING MULTIPLE CAMERAS

HOME RUN CONNECTION

In a home run connection, multiple cameras are connected to different USB/Serial ports on one computer and each camera is controlled through a separate COM port.

HOW TO CONNECT:

1) Connect your cameras to the USB/Serial ports of your computer using Serial/USB VISCA cables *(described in detail in the **Getting Started** section).*
2) Check which COM port numbers are being used by your cameras in the ***Ports*** section of the ***Device Manager***.
3) Switch between cameras in the application by selecting the COM port number of the camera you wish to control from the list of active COM ports.

Note: *In Home Run Mode you can connect as many cameras as there are USB/Serial ports.*

DAISY-CHAIN CONNECTION

In a daisy chain connection, the first camera is connected to a USB port/Serial port of your computer and additional cameras are "daisy-chained" to the first camera using daisy chain cables. In this configuration, multiple cameras can be controlled through one COM port.

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HOW TO CONNECT:

1) Connect your first camera to the USB/Serial port of your computer using a USB/Serial VISCA cable.
2) Connect additional cameras to the first camera with daisy chain cables.
3) Switch between cameras in the application with the plus and minus camera selection buttons.

Note: *You can Daisy Chain up to 7 Sony per COM port. Additional Daisy Chain connections can be added to additional available USB/Serial ports.*

WORKING WITH PRESETS

SETTING AND RECALLING PRESETS

1) In the Preset Configuration section, use the number buttons to input the preset number you wish to set up for the selected camera.
2) Move your camera in the desired position, type the desired name for the preset in the preset name window, and click Set.
3) Repeat for up to 256 presets.
4) Recall on a preset by inputting the desired preset number using the number buttons and clicking Call. The current preset number and name will appear on the screen.
5) If using your USB Joystick to select presets, the current preset number and name will also appear on the screen.

PRESET SCAN

Ideal for security applications, the Preset Scan feature allows you to command a selected camera to scan between presets at a specified time interval. Presets must already be configured.

1) Click ***Preset Scan*** to start the scan cycle. Click it again to stop it.
2) Adjust the time interval between the presets with the cycle slider.

USING THE PTZ WEB REMOTE

Control PTZ cameras from the web browser of any mobile device over any LAN, Wi-Fi, and WAN IP network. Use it as a far-end controller to switch between cameras, control pan, tilt, zoom, and focus, change the speed settings of camera movements, and call on presets*.

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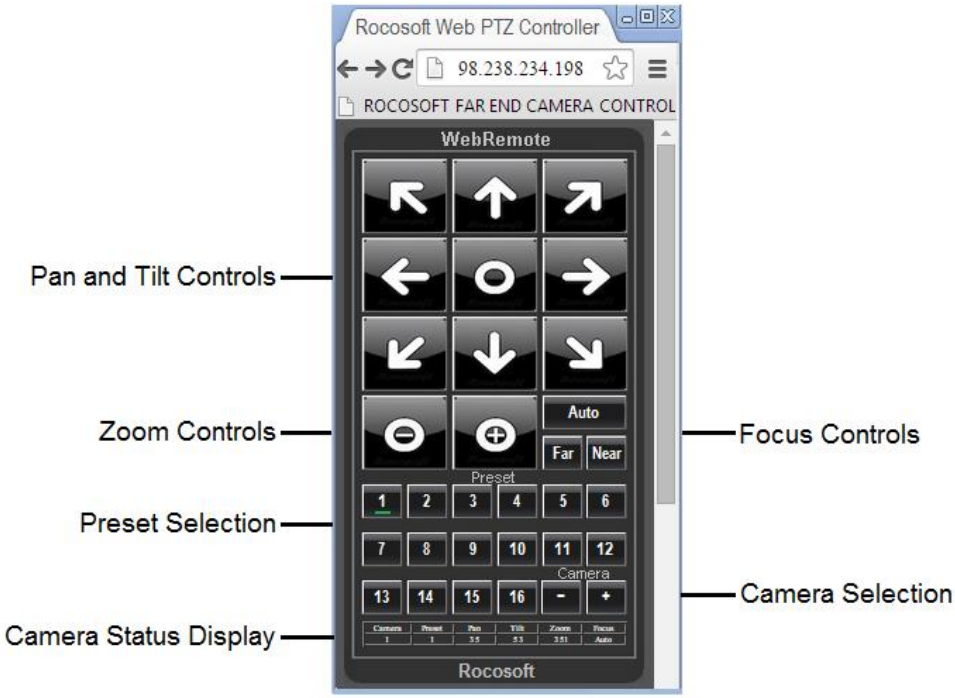

1) Turn ON Web Control access on the Main Controller.
2) The default port for Web Control is 80 and the current IP Address and access information of the Main Controller can be found by clicking on the ***About*** button. You can add security to the connection by changing the Web Control port number on the Main Controller.
3) Open the web browser on your mobile device and type in the IP Address of the Main Controller (see ***About***) into the URL Bar on your mobile device.
4) The WebRemote will appear in the web browser of your mobile device and you can now control the PTZ cameras connected to the Main Controller.* The WebRemote will appear full size in your web-browser – if you are using a computer, you can resize the WebRemote to a more convenient-to-use size by simply changing the zoom settings in the browser.
5) The Camera Status Display will show relevant information such as which camera is being controlled, which presets position is active, the pan, tilt, and zoom speed, and focus mode.

*Control cameras using the WebRemote from a device outside of your local area network by configuring your router and opening ports to accept outside signals. Once your router is configured, you can open a web browser on any device and type in the IP Address of the Main Controller and control your camera.

USING THE IP REMOTE

The IP Remote Controller works in conjunction with the Main Controller to turn your camera into an IP camera controllable from anywhere over any LAN, Wi-Fi, and WAN IP network. The IP Remote Controller comes as an executable file that can be loaded on any computer and used as a far-end controller for the cameras

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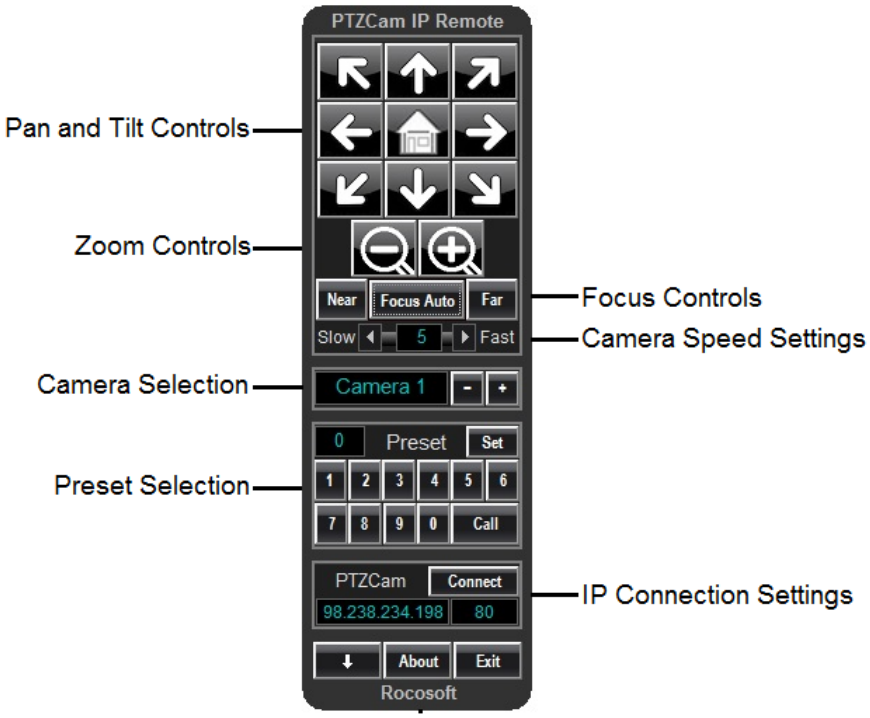
connected to the Main Controller*. Use the IP Remote Controller to control pan, tilt, zoom, and focus, change the speed settings of camera movements, switch between cameras, and call on presets.



1) Download the IP Remote Controller provided in the installation package on any computer you wish to control your camera from. No installation required - simply download and load.

2) Turn ON IP Control access on the Main Controller.

3) The default port for IP Control is 80 and the current IP Address and access information of the Main Controller can be found by clicking on the ***About*** on button. You can add security to the connection by changing the IP Control port number on the Main Controller and on the IP Remote.

4) Open the IP Remote Controller on any remote computer, type in the IP Address of the Main Controller (see ***About***) and click ***Connect.*** You will now be able to control the PTZ cameras connected to the Main Controller*.

* Control cameras using the IP Remote Controller from a device outside of your local area network by configuring your router and opening ports to accept outside signals. Once your router is configured, you can open the IP Remote on a far-end computer, type in the IP Address of the Main Controller and control connected cameras.

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USING THE PTZVISUALPAD CONTROLLER

A customizable graphic user interface for controlling PTZ cameras connected to the computer with the Main Controller and is designed to simplify the logistics of preset switching. Set seat positions, camera positions, add pictures to represent people, add custom room layouts, set live video as the room layout, and designate presets to specific locations in the room.

LOCAL CONTROL

Open the PTZVisualPad on the same computer as the Main Controller and use it to control a connected camera with the graphic interface. Use either a static image or set up a live video background to represent the layout background.

1. **PTZ Visual Pad**
   Main Interface
2. **Profile Pictures**
   Add pictures to represent participants
3. **Profile Title Box**
   Name your profile pictures
4. **Clickable Presets**
   Drag and drop clickable presets
5. **PTZ Controls**
   Convenient Pan, Tilt, Zoom controls
6. **Video ON**
   Turns video background mode ON
7. **Camera Stream Settings**
   Changes standard for the video stream
8. **Camera Settings**
   Extra controls for the camera
9. **Save**
   Saves image for use as background
10. **Camera Selection**
    Switch between cameras to control
11. **Reset**
    Resets everything to default
12. **Pictures Button**
    Toggle on and off use of profile pictures
13. **Names Button**
    Toggle on and off use of profile picture title boxes
14. **Lines Button**
    Show/hide lines that connect to each preset button
15. **Exit**
    Closes the PTZ Visual Pad application
16. **Preset Window**
    Shows the current preset

SETTING BACKGROUND WITH A STATIC IMAGE

1) Open the PTZVisualPad user interface by clicking on the ***PTZVisual*** button on the Main Controller.

2) Use the Main Controller to move the connected camera to a position that shows the entire control area layout on the Video Monitor and click Save. Save the file in a known location.

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3) From the PTZVisualPad interface, double click anywhere on the screen to select a background image.

SETTING BACKGROUND WITH LIVE VIDEO

1) Connect a second camera to your computer to get a second video input for the video background.
2) From the PTZVisualPad interface, click ***Video ON.***
3) Adjust the camera being used for the video background to show the entire control area layout.

USING THE CHARACTER GENERATOR FEATURE

Each member of a meeting can be allocated to a "seat" and represented with a character graphic and name.

SETTING UP A CHARACTER GRAPHIC

1) From the PTZVisualPad interface, click on the ***Pictures*** button.
2) The character avatars will appear on the interface and can be moved to any location on the screen by dragging it.
3) To replace avatars with a custom image, double click on the avatar and select the desired image of the participant from your computer.

SETTING UP NAMES FOR PARTICIPANTS

1) From the PTZVisualPad interface, click on the Names button.
2) The Name tags will appear under each character graphic or avatar.
3) Type in the desired name for each participant.
4) If using a video background, you can hide the character graphic and leave only the names for participants by unselecting the ***Pictures*** button.

SETTING PRESET LOCATIONS

1) Set up your camera position on the PTZVisualPad interface as it actually is in the control area. The image of the camera can be changed if the camera is looking in a different direction as the default. Double click on it to change the image.

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2) Visually assign presets buttons to desired locations by dragging them on the PTZVisualPad interface. Click on the ***Lines*** button to show the preset button positions relative to the camera location.

3) Using the Main Controller, set presets for the camera that correspond with the presets laid out on the PTZVisualPad interface. (See Working with Presets Section)

4) Once the presets are assigned, recall presets directly from the PTZVisualPad interface by double clicking on the preset buttons.

5) All settings are automatically saved. Click on the Reset button to reset everything to default.

FAR-END CONTROL OVER IP

Open the PTZVisualPad IP Remote on a far-end computer and control a camera connected to the Main Controller over an IP network. The camera presets and room/area layout must already be configured locally.

1. PTZ Visual Pad
Main Interface

2. Profile Pictures
Add pictures to represent participants

3. Profile Title Box
Name your profile pictures

4. Clickable Presets
Drag and drop clickable presets

5. PTZ Controls
Convenient Pan, Tilt, Zoom controls

6. Speed Slider
Increase/decrease speed of PTZ movements

7. IP Information
Displays IP Address and port number

8. Camera Selection
Switch between cameras to control

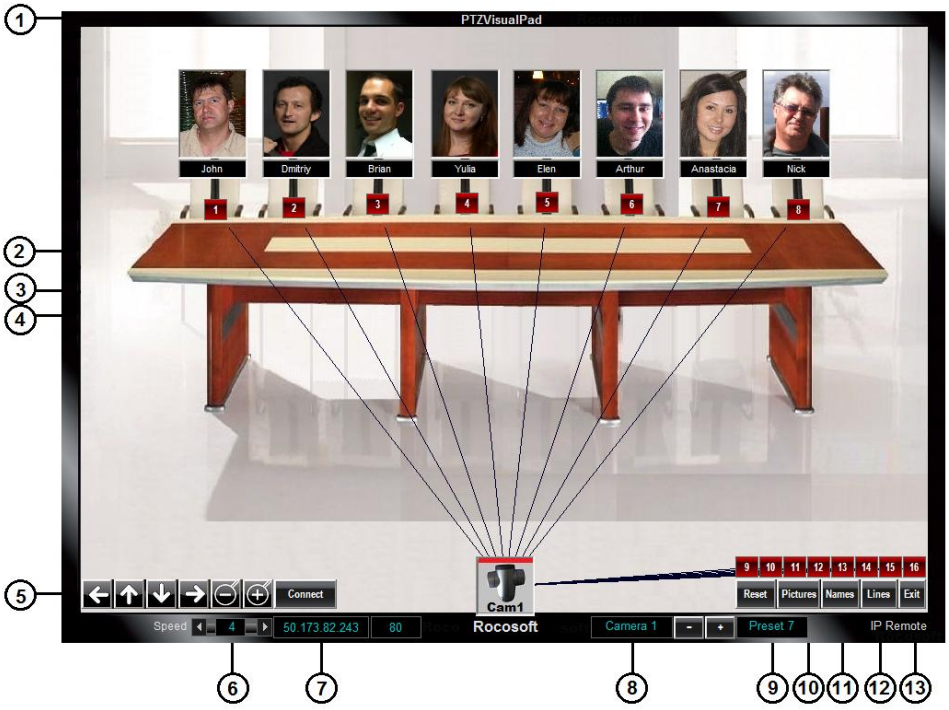
9. Preset Window
Shows the current preset

10. Pictures Button
Toggle on and off use of profile pictures

11. Names Button
Toggle on and off use of profile picture title boxes

12. Lines Button
Show/hide lines that connect to each preset button

13. Exit
Closes the PTZ Visual Pad application



CONNECTING TO THE MAIN CONTROLLER OVER IP

1) Turn ON IP Control access on the Main Controller.

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2) The default port for IP Control is 80 and the current IP Address and access information of the Main Controller can be found by clicking on the ***About*** on button. You can add security to the connection by changing the IP Control port number on the Main Controller and on the far-end PTZVisualPad.

3) Open the PTZVisualPad IP Remote on a far-end computer, type in the IP Address of the Main Controller (see ***About***) and click ***Connect.*** The Connect button will light up green and you will now be able to control the PTZ cameras connected to the Main Controller*. If it does not show a green Connect button, check your IP settings.

   * Control cameras using the PTZVisualPad IP Remote from a device outside of your local area network by configuring your router and opening ports to accept outside signals. Once your router is configured, you can open the IP Remote on a far-end computer, type in the IP Address of the Main Controller and control connected cameras.

CONTROLLING THE CAMERA

1) In order to use the PTZVisualPad far-end IP Remote, the camera presets and room/area layout and background image must already be configured on the Main Controller and local PTZVisualPad remote. Use Alt+PrintScreen to take a snapshot of the configured local PTZVisualPad and send the image to the far-end computer and save in a known location.

2) On the far-end PTZVisualPad IP Remote, set the background image by double clicking on the background and selecting the image of the configured setup.

3) Drag and drop corresponding presets on the far-end controller to overlap the configured presets in the image.

4) Recall presets by clicking on the preset buttons.

ADDITIONAL CONTROL SETTINGS

Minimize to Taskbar: Minimizes program to taskbar for quick access

Start with Windows: Configure program to automatically start with Windows Startup.

1) Click on the Windows Logo Button to activate this feature
2) Restart the computer.
3) The program should start with Windows automatically.
4) If it does not start automatically, right click on the PTZJoy program loader file and click “Run as Administrator”. Click on the Windows Logo Button in the program again, close the program, and restart your computer.

Pan, Tilt, Zoom Flip: The ***P-Flip***, ***T-Flip*** and ***Z-Flip*** buttons inverse the Pan, Tilt, and Zoom directions of a selected camera.

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Camera ON/OFF: Turns selected camera ON or OFF

Camera Initiation: Allows you to add or remove cameras in a Daisy Chain connection without restarting all cameras.

Auto-Pan

1) Click ***Auto Pan*** to start the pan cycle. Click it again to stop it.
2) Adjust the length of the pan cycle with the cycle slider bar.

ADDITIONAL VIDEO SETTINGS

White Balance Settings: Auto Mode, Indoor Mode, Outdoor Mode, ATW Mode, Call, Change, and manually adjust R-Gain and B-Gain with scroll bars

Aperture Settings: Auto Mode. Manually adjust aperture with the scroll bar.

Exposure Control Settings: Auto, Iris, Shutter, Gain

One Push Auto Focus: ON/OFF

Tally Light: ON/OFF

Video Mute: ON/OFF

Negative Image: ON/OFF

Black/White Image: ON/OFF

Mirror Image: ON/OFF

Image Freeze: ON/OFF

Video Stabilizer: ON/Hold/OFF

Backlight: Backlight Compensation

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